GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO:323
ANSWERED ON:25.02.2016
Depletion in Groundwater Level
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Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

(a) the State-wise per capita availability of water at present and its expected availability by 2025 along with current status of groundwater resources in the country;

(b) Whether groundwater level is depleting rapidly and natural sources like rivers/ponds/canals/wells are drying up in the country and if so, the reasons for the same and the current level of groundwater in each State;

(c) the details of schemes/programmes/ projects launched to tackle the situation and the funds made available/utilised under each scheme/programme/project during each year of the last as well as current plan till date, State-wise; and

(d) the future plan of the Government to check depleting groundwater level, recharge groundwater including steps taken towards rain water harvesting?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION
(PROF.SANWAR LAL JAT)

(a) The average annual per capita availability of water in the Country, taking into consideration the population of the Country as per year 2011 Census is 1545 cubic meters. Details of State-wise per capita availability of water are not available as surface water resources are estimated basin-wise. As per the latest assessment (as on March 2011) of replenishable ground water resources, jointly assessed by Central Ground Water Board (CGWB) and State Ground Water Organizations, the total annual replenishable ground water resource in the Country is around 433 Billion Cubic Metres (BCM) and net annual ground water availability is 398 BCM.
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(b) Ground water is continuously being exploited due to growth in population, increased industrialization and irrigation as a result of which ground water levels in various parts of the country are declining. State-wise details of ground water levels monitored by CGWB are given at Annexure-I.

(c) A Central Sector Scheme of 'Ground Water Management & Regulation' is operational for regulating the development of ground water. A component of Aquifer Mapping and Management Programme has been included in the Scheme during XII Plan for quantitative and qualitative characterisation of aquifers and development of aquifer-wise management plans. The total actual expenditure made under the Scheme during the last Plan Period and current Plan Period, years-wise is given at Annexure −II. CGWB had also undertaken a component of Demonstrative Rain Water Harvesting and Artificial Recharge Project during XI Plan under the above Scheme in priority areas. The project aimed at facilitating State Governments for replicating recharge projects in similar hydrogeological environment. During the XI Plan, 133 demonstrative recharge projects costing Rs. 99.87 crore were approved for construction of artificial recharge structures in 22 States. Although, the component has been discontinued during the XII Plan period, funds are still being released for spill over projects during XII Plan. State-wise and year-wise funds allocated & released for construction of recharge structures, during last and current Plan Period are given at Annexure-III.

(d) CGWB has taken up Aquifer Mapping and Management programme during XII Plan, under the scheme of Ground Water Management and Regulation. The Aquifer Mapping is aimed to delineate aquifer disposition and their characterization for preparation of aquifer/area specific ground water management plans. These management plans will be shared with the respective State Governments for community involvement. CGWB has also prepared a conceptual document entitled "Master Plan for Artificial Recharge to Ground Water in India" during the year 2013, which envisages construction of 1.11 crore rain water harvesting and artificial recharge structures in the Country, at an estimated cost of Rs. 79,178 crores to harness 85 BCM (Billion Cubic Metre) of water, in an area of 9,41,541 sq.km by harnessing surplus monsoon runoff to augment ground water resources. The Master Plan has been circulated to all State Governments for implementation. The National Water Policy (2012), has been formulated by Ministry of Water Resources, RD & GR which, inter-alia, advocates conservation, promotion and protection of water and highlights the need for augmenting the availability of water through direct use of rainfall. The National Water Policy (2012) has been forwarded to all State/UT Governments and concerned Ministries/ Departments of Central Government for appropriate action. A National Water Mission has also been set up to, inter-alia, promote conservation of water resources.

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ANNEXURE - I

Annexure referred to in reply to Lok Sabha Unstarred Question No. 323 to be answered on 25.02.2016 regarding "Depletion in Groundwater level"

State-wise Depth to water Level and Distribution of Percentage of Wells for the Period of Pre-monsoon, 2015

S. No.	Name of State	No. of wells Analysed	Number & Percentage of Wells Showing Depth to Water Level (mbgl) in the Range of									
			0-2		2-5		5-10		10-20		20-40		> 40	
			No	%	No	%	No	%	No	%	No	%
1	Andaman & Nicobar Island	86	41	47.67	39	45.35	5	5.81	1	1.16	0	0.00	0	0.00
2	Andhra Pradesh	787	105	13.34	323	41.04	260	33.04	93	11.82	4	0.51	2	0.25
3	Arunachal Pradesh	13	1	7.69	5	38.46	5	38.46	2	15.38	0	0.00	0	0.00
4	Assam	191	20	10.47	122	63.87	45	23.56	4	2.09	0	0.00	0	0.00
5	Bihar	580	9	1.55	291	50.17	259	44.66	21	3.62	0	0.00	0	0.00
6	Chandigarh	11	0	0.00	2	18.18	2	18.18	4	36.36	3	27.27	0	0.00
7	Chhattisgarh	567	25	4.41	148	26.10	288	50.79	98	17.28	7	1.23	1	0.18
8	Dadra & Nagar Haveli	12	0	0.00	2	16.67	6	50.00	4	33.33	0	0.00	0	0.00
9	Daman & Diu	7	0	0.00	2	28.57	4	57.14	1	14.29	0	0.00	0	0.00
10	Delhi	114	3	2.63	24	21.05	30	26.32	30	26.32	17	14.91	10	8.77
11	Goa	41	3	7.32	19	46.34	14	34.15	5	12.20	0	0.00	0	0.00
12	Gujarat	794	18	2.27	151	19.02	273	34.38	262	33.00	85	10.71	5	0.63
13	Haryana	325	20	6.15	62	19.08	82	25.23	97	29.85	53	16.31	11	3.38
14	Himachal Pradesh	87	12	13.79	37	42.53	13	14.94	20	22.99	5	5.75	0	0.00
15	Jammu & kashmir	222	69	31.08	99	44.59	36	16.22	10	4.50	8	3.60	0	0.00
16	Jharkhand	151	1	0.66	23	15.23	104	68.87	23	15.23	0	0.00	0	0.00
17	Karnataka	1442	150	10.40	393	27.25	580	40.22	302	20.94	17	1.18	0	0.00
18	Kerala	1417	118	8.33	407	28.72	648	45.73	230	16.23	13	0.92	1	0.07
19	Madhya Pradesh	1362	20	1.47	200	14.68	629	46.18	438	32.16	61	4.48	13	0.95
20	Maharashtra	1534	46	3.00	290	18.90	762	49.67	402	26.21	31	2.02	3	0.20
21	Meghalaya	17	2	11.76	13	76.47	2	11.76	0	0.00	0	0.00	0	0.00
22	Nagaland	10	0	0.00	2	20.00	6	60.00	1	10.00	1	10.00	0	0.00
23	Orissa	1254	128	10.21	475	37.88	633	50.48	18	1.44	0	0.00	0	0.00
24	Pondicherry	4	0	0.00	3	75.00	1	25.00	0	0.00	0	0.00	0	0.00
25	Punjab	686	17	2.48	99	14.43	150	21.87	237	34.55	183	26.68	0	0.00
26	Rajasthan	827	27	3.26	95	11.49	189	22.85	210	25.39	147	17.78	159	19.23
27	Tamil Nadu	593	65	10.96	174	29.34	216	36.42	107	18.04	25	4.22	6	1.01
28	Telangana	563	13	2.31	87	15.45	235	41.74	198	35.17	28	4.97	2	0.36
29	Tripura	28	4	14.29	17	60.71	7	25.00	0	0.00	0	0.00	0	0.00
30	Uttar Pradesh	754	31	4.11	259	34.35	298	39.52	144	19.10	22	2.92	0	0.00
31	Uttaranchal	37	0	0.00	16	43.24	8	21.62	12	32.43	1	2.70	0	0.00
32	West Bengal	894	45	5.03	266	29.75	352	39.37	202	22.60	29	3.24	0	0.00
Total		15410	993	6.44	4145	26.90	6142	39.86	3176	20.61	740	4.80	213	1.38

ANNEXURE - II

Annexure referred to in reply to Lok Sabha Unstarred Question No. 323 to be answered on 25.02.2016 regarding "Depletion in Groundwater level"

PLAN-WISE AND YEAR-WISE EXPENDITURE OF
GROUND WATER MANAGEMENT & REGULATION SCHEME
DURING XI AND XII PLAN

	XI Plan				XII Plan				
Year	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16 (as on 31st January, 2016)
Expenditure (Rs. in Crore)	48.15	54.38	68.91	81.05	130.85	118.65	83.18	124.89	83.77

ANNEXURE − III

Annexure referred in reply to Lok Sabha Unstarred Question No. 323 to be answered on 25.02.2016 regarding "Depletion in Groundwater level"

State-Wise and Year-Wise Approved Cost and Funds Released during Last and Current Plan Period under the Demonstrative Rain Water Harvesting and Artificial Recharge Projects (Rs. in Lakh)

SN	Name of States/UTs	Year 2008-09		Year 2009-10		Year 2010-11		Year 2011-12 Spill over IInd Instal. Released		2012-13 Spill over IInd Instal. Released		2013-14 Spill over IInd Instal. Released		2014-15 Total (XI & Spill over in XII Plan)	
		Approved Cost	Released Funds	Approved Cost	Released Funds	Approved Cost	Released Funds	Approved Cost	Released Funds	Approved Cost	Released Funds	Approved Cost	Released Funds	Approved Cost	Released Funds
1	Andhra Pradesh	130.0200	91.0140	39.0060	130.02	130.02									
2	Arunachal Pradesh	259.668	77.9	103.8670	233.4400	227.6100	83.730	493.11	493.11						
3	Bihar	96.0100	67.2100	28.8	96.01	96.01									
4	Chandigarh	776.0300	543.2210	231.3	776.03	774.52									
5	Chahattisgarh	268.8000	150.4000	108.45	268.80	258.85									

6 Delhi 43.4400 30.4100 13.029 43.44 43.44
7 Gujarat 316.2400 221.3680 44.859 20.423 316.24 286.65
8 Himachal Pradesh 250.0170 165.1400 83.352 1.53 250.02 250.02
9 Jammu & Kashmir 143.4700 91.2770 16.659 28.76 143.47 136.70

10 Jharkhand 16.4900 11.5430 174.8560 122.4000 52.4565 4.9470 191.35 191.35
Jharkhand Additional Funds 14.6100 14.61
11 Karnataka 109.1580 76.4100 96.5850 67.6100 382.3500 303.0000 33.4560 107.615 588.09 588.09
12 Kerala 39.05 11.715 10.8150 55.0860 55.0740 4.050 94.14 81.65
13 Madhya Pradesh 431.8600 302.3020 429.0500 331.0740 38.754 60.75 860.91 732.88
14 Maharashtra 15.1500 10.6050 4.5450 15.15 15.15
15 Nagaland 224.1400 141.3400 82.800 224.14 224.14
16 Orissa 464.3600 325.0400 139.32 464.36 464.36
17 Punjab 179.453 53.836 80.8800 56.6200 260.33 110.46
18 Rajasthan 404.7770 235.0552 10.282 38.8 58.62 404.78 342.76
19 Tamil Nadu 111 33.3 415.3500 368.4450 0.0000 112.6050 12.000 526.35 526.35
20 Telengana 75.1800 52.6400 368.2100 255.0340 135.712 443.39 443.39
21 Uttar Pradesh 720.0630 504.4400 1060.6400 728.5000 1505.5300 1269.4900 451.684 3286.23 2954.11
22 West Bengal 111.091 33.327 44.4360 33.3273 111.09 111.09
TOTAL 700.262 210.078 1374.5910 1040.3090 2788.1750 2096.9070 5124.4160 4015.6575 406.889 733.82545 766.034 9987.44 9269.70

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